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Methods and systems are provided to manage communications in networks having wired and wireless portions. By determining the optimum segment size for a wireless link based on various status conditions such as bit-error rates, data throughput across the wireless link can be improved. Accordingly, data received from a wired network can be repackaged using the desired segment size before being transmitted over the wireless link. Similarly, optimum-sized segments can be received from the wireless link and the data in the received segments can be passed to the wired network.

[illegible]